S. S. Rohit

+919686873910 | rohitshrothrium.ss1997@gmail.com | linkedin.com/in/rohit-shrothrium | github.com/randr97

Education

B.M.S College Of Engineering — Bangalore, KA
B.E, Electrical and Electronics Engineering, 8.95 CGPA — *August 2015 - May 2019*

V.V.S Sardar Patel PU College — Bangalore, KA
Pre University, 91.83% — *July 2013 - June 2015*

Technical Skills

Operating Systems	LINUX, Windows
Programming Languages	Python, C, C++, Java, Javascript, Shell, Matlab
Libraries and tools	Numpy, Pandas, Pyspark, Dask
Framework	Django, Flask, RESTful Api, React, chartjs, Elastic Search
Data Pipeline	Apache Airflow, Kafka, Spark, NiFi
Devops	Docker, Kibana, Sentry
AWS	Redshift, DocumentDB, S3, EC2, Glue, Batch

Experience

Full Stack Web Developer — Jan 2019 – Present
GALE Partners — *Bangalore, KA*

Worked on Alchemy, a Customer Data Platform (CDP) that rapidly organizes a brand's first party data including a customer's transactions, interactions, and behaviors. It then enriches this information with third party data to develop a robust customer view (Customer 360)

- Designed and Developed Audience Builder, a framework responsible for handling customer data and creating target audience using Pyspark and Airflow
- Developed data pipelines for audience movement across various clusters and systems
- Using fuzzy models, developed an ID-Graph to resolve customer identity from different sources of data
- Ensured GDPR compliance for data privacy and protection
- Built an on-boarder to push target audience to ad-platforms like facebook and google
- Owned the bulk media activation for the product enabling media buyers to upload CSV's to onboard ads into different platforms which reduced the organisational costs and staff hours
- Closely worked with the product and strategy teams to ensure product augmentation and integration of various features into Alchemy

Research Intern — June 2018 - Sep. 2018
ABB, Corporate Research Center — *Bangalore, KA*

Was involved in migrating Legacy Distributed Control System software by automating the current process. Scope of the research included automating the logic extraction process from an existing backup and documenting them using graphical diagrams

- Coordinated with the Hardware systems team to understand general principles for documentation and migration for control system software
- Worked on system backup data and used reverse engineering technique to extract logic
- Was involved in end-to-end development of the prototype using .NET platform
- Using Microsoft's Automatic Graph Layout, we were able to generate documents with flow charts that represented various control system logic
- This research work was published as a paper titled "Industrial control systems-legacy system documentation and augmentation" in the "2018 IEEE 3rd International Conference on Computing, Communication and Security (ICCCS)"

Projects

Industrial Asset Tracking using LoRa | *C++, Django, Kafka, LoRa, Raspberry-Pi* June 2016 – Dec. 2017

Scope of the research was to explore various IoT technologies and come up with an optimal solution to track and monitor industrial assets. The asset storage area would not have a typical internet connection and located in an isolated area

- Conducted comparative study between LoRa, Sigfox, NB-IoT and other IoT devices
- Designed and Developed a data pipeline to aggregate data from several endpoints and push data to the cloud
- Leveraged tools like Kafka for streaming data that was observed in real time
- This research work was published as a paper titled "Iot based identification and assessment of industrial assets" in the "2018 International Conference on Computing, Power and Communication Technologies(GUCON)"

Micro-grid analytics | *Django, Kafka, Mongodb, Airflow* Oct 2018 – May 2019

Scope of the project included building and integrating systems with multiple end points collecting solar generation data and utility load data. Based on the data being collected, build mathematical models to predict future data which include both generation and demand

- Designed and Developed APIs to retrieve solar data and load data from multiple end points.
- Developed data pipelines using kafka to maximize throughput
- Developed and deployed timeseries models for load and generation forecasting which included Artificial Neural Network (ANNs), Long Short Term Memory (LSTMs) and ARMA

Apache Airflow | *Python, Shell, Docker* March 2020 – Present

To purse my passion for computer science, I contributed to the open source community of apache airflow. One of my recent contribution was the development of the REST API service for airflow 2.0 release

- Contributed to REST-API project for airflow 2.0
- Designed and built facebook ads operator
- Contributed to HttpOperator to augment it's authentication mechanism

Academic Achievements

Vice Chairman, BMSCE IEEE, Bangalore July 2017 – July 2018

Worked as a part of the executive committee of BMSCE IEEE student branch

D. S. Ramakrishna award August 2018

Won scholarship amount of rupees ten thousand for securing the highest score in Field theory and Control Systems

IEEE Xtreme 10.0 October 2016

My team, Bytemetoo, stood 7th in India and 307th globally with a total participation of 2200 teams